	Application No.	Applicant(s)
		''
Notice of Allowability	09/841,080 Examiner	KUROZUMI ET AL. Art Unit
•		
	Eva Yi Zheng	2634
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85; NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i) or other appropriate comm IGHTS. This application is:	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>Amendment filed on 10/17/05</u> .		
2. The allowed claim(s) is/are <u>1,3-6,8-11,13-16 and 18-20</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority up a) ☐ All b) ☐ Some* c) ☐ None of the:	nder 35 U.S.C. § 119(a)-(d)	or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Ir	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		/Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
C. Diological Hatorial	9. 🔲 Other	<u> -</u> :

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 3-6, 8-11, 13-16, and 18-20 are allowed.

2. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or suggests signal detection system as the current application. In more specific, US Paten 6,826,350 by Kashino et al. is a very close prior art. Kashino et al. disclose a feature quantity sequence as a reference, determine an input feature quantity signal, and calculate the signal degree of similarity between the reference and input feature quantity sequence. However, Kashino et al. fails to teach a distortion or noise addition device in signal searching system. The current application overcome the prior art by a distortion adding step to the at least one of the reference time-series signal, the input time-series signal, the reference feature time-series signal, the input feature time-series signal, the reference coded time-series signal, and the input coded time-series signal. Moreover, in the distortion addition step: the added distortion is generated using random numbers; an amount of distortion used for distorting features is modeled using a normal distribution, wherein parameters in the modeling are the amount of parallel translation and the variances; and the distortion is added using at least one of the amount of parallel translation and the variance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Y Zheng whose telephone number is 571-272-3049. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eva Yi Zheng Examiner Art Unit 2634

January 4, 2006

CHIEH M. FAN
SUPERVISORY PATENT EXAMINER